

## AMENDMENTS

Claim amendments:

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1. (Currently Amended) A method in a programmable device for generating metadata for transmission to a programming event receiver, the metadata describing a programming event, the method comprising:

~~receiving~~obtaining production data corresponding to the programming event from a production system used in the production of the programming event, the production data including descriptive information and timing information for the programming event;

~~analyzing the received data for the programming event to determine~~assigning respective numerical goodness of fit scores corresponding to respective predefined categories of a classification hierarchy based on analysis of the production data to describe the subject matter of the programming event, wherein the numerical goodness of fit score assigned to a category represents a degree to which the category is descriptive of the subject matter of the programming event;

~~analyzing the received data to determine~~assigning keywords associated ~~with~~to the programming event based on analysis of the production data; and

storing numerical goodness of fit scores and keywords for the programming event in a computer readable medium in association with time data and descriptive data for the programming event as the metadata for transmission to a programming event receiver describing the programming event.

2. (Currently Amended) The method claimed in claim 1, ~~further comprising~~ wherein assigning keywords comprises:

determining respective numerical goodness of fit scores corresponding to said categories of said classification hierarchy for each of said ~~determined~~candidate keywords; and

determining a representative subset of said candidate keywords by a thresholding procedure using said numerical goodness of fit scores for said candidate keywords.

3. (Currently Amended) The method claimed in claim 21, further comprising ~~determining a representative subset of said determined keywords by a thresholding procedure using said numerical goodness of fit scores for said determined keywords, and~~

~~wherein storing keywords comprises storing said representative subset of keywords and their corresponding numerical goodness of fit scores as part of said metadata wherein said predefined categories are arranged in a hierarchy comprising at least a set of top-level categories, respective sets of first level sub-categories each corresponding to and encompassed by a top level category, and respective sets of second level sub-categories each corresponding to and encompassed by a first level sub-category.~~

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4. (Previously Amended) The method claimed in claim 1, further comprising determining a representative subset of said numerical goodness of fit scores, and

wherein storing numerical goodness of fit scores comprises storing said representative subset of said numerical goodness of fit scores.

5. (Currently Amended) The method claimed in claim 1, wherein the ~~received production data comprises program descriptive~~ received production data comprises program descriptive data produced by the production system.

6. (Currently Amended) The method claimed in claim 1, wherein the ~~received production data comprises production data including descriptive information and timing information~~ received production data comprises production data including descriptive information and timing information script data produced by the production system.

7. (Currently Amended) The method claimed in claim 6, wherein analyzing ~~the received data is~~ assigning numerical goodness of fit scores and assigning key words are preceded by determining analysis of the production data to determine a time and a duration of individual segments of a program described by the production data, and

wherein said metadata is generated using ~~received production data~~ that is specific to an individual segment of said program such that the metadata is descriptive of that individual segment.

8. (Original) The method claimed in claim 7, wherein determining a time and duration is preceded by processing the production data to conform to a standard delimited format.

9. (Currently Amended) The method claimed in claim 7, wherein the ~~received production data further comprises program descriptive data describing the program~~ rundown data and script data produced by the production system.

10. (Currently Amended) The method claimed in claim 1, wherein storing keywords comprises ~~storing no more than~~ selecting a predetermined number of said assigned keywords for storage.

11. (Currently Amended) A programmable device for generating metadata for transmission to a programming event receiver, the metadata describing a programming event, the device comprising a computer readable medium storing programming code to control the device to perform processing comprising:

~~at least one processor; and~~

~~memory coupled to the at least one processor and having stored therein programming instructions to perform data processing, comprising:~~

~~receiving~~ obtaining production data corresponding to the programming event from a production system used in the production of the programming event, the production data including descriptive information and timing information for the programming event;

~~analyzing the received data for the programming event to determine assigning respective numerical goodness of fit scores corresponding to respective predefined categories of a classification hierarchy based on analysis of the production data to describe the subject matter of the programming event, wherein the numerical goodness of fit score assigned to a category represents a degree to which the category is descriptive of the subject matter of the programming event;~~

~~analyzing the received data to determine assigning keywords associated with to the programming event based on analysis of the production data; and~~

~~storing numerical goodness of fit scores and keywords for the programming event in a computer readable medium in association with time data and descriptive data for the programming event as the metadata for transmission to a programming event receiver describing the programming event.~~

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12. (Currently Amended) The device claimed in claim 11, ~~said processing further comprising wherein assigning keywords comprises:~~

~~determining respective numerical goodness of fit scores corresponding to said categories of said classification hierarchy for each of said determined candidate keywords; and~~

~~determining a representative subset of said candidate keywords by a thresholding procedure using said numerical goodness of fit scores for said candidate keywords.~~

13. (Currently Amended) The device claimed in claim 12, ~~said processing further comprising determining a representative subset of said determined keywords by a thresholding procedure using said numerical goodness of fit scores for said determined keywords, and~~

~~wherein storing keywords comprises storing said representative subset of keywords and their corresponding numerical goodness of fit scores as part of said metadata wherein said predefined categories are arranged in a hierarchy comprising at least a set of top-level categories, respective sets of first level~~

sub-categories each corresponding to and encompassed by a top level category, and respective sets of second level sub-categories each corresponding to and encompassed by a first level sub-category.

14. (Previously Amended) The device claimed in claim 11, said processing further comprising determining a representative subset of said numerical goodness of fit scores, and

wherein storing numerical goodness of fit scores comprises storing said representative subset of said numerical goodness of fit scores.

15. (Currently Amended) The device claimed in claim 11, wherein the received-production data comprises program-descriptive~~undown data produced by the production system.~~

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16. (Currently Amended) The device claimed in claim 11, wherein the received-production data comprises production data including descriptive information and timing information script data produced by the production system.

17. (Currently Amended) The device claimed in claim 16, wherein analyzing the received data is assigning numerical goodness of fit scores and assigning key words are preceded by determining analysis of the production data to determine a time and a duration of individual segments of a program described by the production data, and

wherein said metadata is generated using received-production data that is specific to an individual segment of said program such that the metadata is descriptive of that individual segment.

18. (Original) The device claimed in claim 17, wherein determining a time and duration is preceded by processing the production data to conform to a standard delimited format.

19. (Currently Amended) The device claimed in claim 17, wherein the ~~received production data further comprises program descriptive data describing the program~~ rundown data and script data produced by the production system.

20. (Currently Amended) The device claimed in claim 11, wherein storing keywords comprises ~~storing no more than~~ selecting a predetermined number of said assigned keywords for storage.

21. (Currently Amended) A method in a programmable device for generating metadata for transmission to a programming event receiver, the metadata describing a programming event, the method comprising:  
obtaining production data corresponding to the programming event from a production system used in the production of the programming event, the production data including descriptive information for the programming event;

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determining candidate keywords from descriptive the production data associated with the programming event;

providing the candidate keywords as respective inputs to a classification tool configured to generate and generating for each of said candidate keywords a set of numerical goodness of fit scores each corresponding to categories a predefined category of a classification hierarchy, wherein the numerical goodness of fit score corresponding to a category represents a degree to which the category is descriptive of the candidate keyword;

selecting keywords to represent the programming event from among said candidate keywords based on the set of numerical goodness of fit scores corresponding to the categories of the classification hierarchy for each of said candidate keywords; and

storing said selected keywords in a computer readable medium as a component of said metadata describing the programming event.

22. (Original) The method claimed in claim 21, wherein determining candidate keywords comprise ~~determining~~ identifying verbs and nouns ~~of in~~ in said

descriptive production data and using said verbs and nouns as candidate key words.

23. (Currently Amended) The method claimed in claim 21, wherein selecting keywords is preceded by:

determining correlations between sets of numerical goodness of fit scores generated from said candidate keywords and a set of numerical goodness of fit scores generated from said by providing said descriptive data associated with said information for the programming event as input to said classification tool; and

discarding candidate keywords having low correlation.

24. (Previously Amended) The method claimed in claim 21, wherein selecting keywords comprises eliminating candidate keywords by a thresholding process using a highest numerical goodness of fit score associated with each candidate keyword.

25. (Currently Amended) The method claimed in claim 21, ~~further comprising storing a highest numerical goodness of fit score associated with each selected keyword as a corresponding keyword goodness of fit score~~ wherein said production data comprises at least one of rundown data and script data for the programming event.

26. (Currently Amended) The method claimed in claim 21, wherein ~~storing selected keywords comprises storing no more than a predetermined number of selected keywords~~ said production data further comprises timing data,

wherein determining candidate keywords is preceded by determining a time and a duration of individual segments of a program described by the production data, and

wherein said candidate keywords are generated using production data that is specific to an individual segment of said program such that the candidate keywords are descriptive of that individual segment.

27. (Currently Amended) A programmable device for generating metadata for transmission to a programming event receiver, the metadata describing a programming event, the metadata device comprising a computer readable medium storing programming code for controlling the device to perform processing comprising:

at least one processor; and

memory coupled to the at least one processor and having stored therein programming instructions to perform data processing, comprising:

obtaining production data corresponding to the programming event from a production system used in the production of the programming event, the production data including descriptive information for the programming event;

determining candidate keywords from descriptive the production data associated with the programming event;

providing the candidate keywords as respective inputs to a classification tool configured to generate and generating for each of said candidate keywords a set of numerical goodness of fit scores each corresponding to categories a predefined category of a classification hierarchy, wherein the numerical goodness of fit score corresponding to a category represents a degree to which the category is descriptive of the candidate keyword;

selecting keywords to represent the programming event from among said candidate keywords based on the set of numerical goodness of fit scores corresponding to the categories of the classification hierarchy for each of said candidate keywords; and

storing said selected keywords in a computer readable medium as a component of said metadata describing the programming event.

28. (Currently Amended) The device claimed in claim 27, wherein determining candidate keywords comprise determining identifying verbs and



nouns ~~of in~~ said descriptive production data and using said verbs and nouns as candidate key words.

29. (Currently Amended) The device claimed in claim 27, wherein selecting keywords is preceded by:

determining correlations between sets of numerical goodness of fit scores generated from said candidate keywords and a set of numerical goodness of fit scores generated ~~from said~~ by providing said descriptive data associated with said information for the programming event as input to said classification tool; and

discarding candidate keywords having low correlation.

30. (Previously Amended) The device in claim 27, wherein selecting keywords comprises eliminating candidate keywords by a thresholding process using a highest numerical goodness of fit score associated with each candidate keyword.

31. (Currently Amended) The device claimed in claim 27, ~~said processing further comprising storing a highest numerical goodness of fit score associated with each selected keyword as a corresponding keyword goodness of fit score wherein said production data comprises at least one of rundown data and script data for the programming event.~~

32. (Currently Amended) The device claimed in claim 27, ~~wherein storing selected keywords comprises storing no more than a predetermined number of selected keywords~~ said production data further comprises timing data,

wherein determining candidate keywords is preceded by determining a time and a duration of individual segments of a program described by the production data, and

wherein said candidate keywords are generated using production data that is specific to an individual segment of said program such that the candidate keywords are descriptive of that individual segment.

33. (New) The method claimed in claim 21, wherein said predefined categories are arranged in a hierarchy comprising at least a set of top-level categories, respective sets of first level sub-categories each corresponding to and encompassed by a top level category, and respective sets of second level sub-categories each corresponding to and encompassed by a first level sub-category.

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34. (New) The device claimed in claim 27, wherein said predefined categories are arranged in a hierarchy comprising at least a set of top-level categories, respective sets of first level sub-categories each corresponding to and encompassed by a top level category, and respective sets of second level sub-categories each corresponding to and encompassed by a first level sub-category.

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